

## PCT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING  
SUBMISSION OR TRANSMITTAL  
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

JOHN AND KERNICK  
P.O. Box 3511  
1685 Halfway House  
AFRIQUE DU SUD

Date of mailing (day/month/year) 06 December 2000 (06.12.00)	<b>IMPORTANT NOTIFICATION</b>
Applicant's or agent's file reference P 13746 PCT	
International application No. PCT/ZA99/00106	
International publication date (day/month/year) 13 April 2000 (13.04.00)	
International filing date (day/month/year) 05 October 1999 (05.10.99)	Priority date (day/month/year) 05 October 1998 (05.10.98)
Applicant COHEN, Lance, Farrel	

1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
3. An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, **the attention of the applicant is directed** to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, **the attention of the applicant is directed** to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
05 Octo 1998 (05.10.98)	98/9041	ZA	14 Nove 2000 (14.11.00)

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

Sean Taylor

Telephone No. (41-22) 338.83.38

## P O E N T C O O P E R A T I O N T R E A T Y

PCT

NOTIFICATION CONCERNING  
DOCUMENT TRANSMITTED

From the INTERNATIONAL BUREAU

To:

Commissioner  
US Department of Commerce  
United States Patent and Trademark  
Office, PCT  
2011 South Clark Place Room  
CP2/5C24  
Arlington, VA 22202  
ETATS-UNIS D'AMERIQUE  
in its capacity as designated Office

Date of mailing (day/month/year) 06 December 2000 (06.12.00)	
International application No. PCT/ZA99/00106	International filing date (day/month/year) 05 October 1999 (05.10.99)
Applicant COHEN, Lance, Farrel	

The International Bureau transmits herewith the following documents and number thereof:

\_\_\_\_\_ cop(ies) of priority document(s) (Rule 17.2(a))

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Sean Taylor
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

From the INTERNATIONAL BUREAU

## PCT

### NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Assistant Commissioner for Patents  
United States Patent and Trademark  
Office  
Box PCT  
Washington, D.C. 20231  
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

<b>Date of mailing (day/month/year)</b> 20 June 2000 (20.06.00)	
<b>International application No.</b> PCT/ZA99/00106	<b>Applicant's or agent's file reference</b> P 13746 PCT
<b>International filing date (day/month/year)</b> 05 October 1999 (05.10.99)	<b>Priority date (day/month/year)</b> 05 October 1998 (05.10.98)
<b>Applicant</b> COHEN, Lance, Farrel	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
08 May 2000 (08.05.00)

☐ in a notice effecting later election filed with the International Bureau on:  
\_\_\_\_\_

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b>  <p style="text-align: center;">Kiwa Mpay</p> Telephone No.: (41-22) 338.83.38
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# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>P 13746 PCT</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/ZA 99/ 00106</b>	International filing date (day/month/year) <b>05/10/1999</b>	(Earliest) Priority Date (day/month/year) <b>05/10/1998</b>
Applicant <b>COHEN, Lance, Farrel</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Scope of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

### 4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**CAMERA SYSTEM REMOTELY CONTROLLED OVER A COMMUNICATION NETWORK**

### 5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1

☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No.

ZA 99/00106

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04M11/04 H04M11/00 G08B15/00 H04N5/232 H04N7/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N G08B H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 256 771 A (CABLE SRL) 16 December 1992 (1992-12-16)	1,7
Y	page 1, line 4 - line 20 page 4, line 2 -page 10, line 15	2-6,8,9
Y	US 4 954 886 A (ELBERBAUM DAVID) 4 September 1990 (1990-09-04) column 3, line 32 - line 50 column 6, line 65 -column 7, line 10 column 8, line 28 - line 49	2,3,8
Y	US 4 326 221 A (MALLOS GENE G ET AL) 20 April 1982 (1982-04-20) column 1, line 12 - line 34 column 1, line 47 -column 9, line 14	4-6,9



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"B" document member of the same patent family

Date of the actual completion of the international search

28 January 2000

Date of mailing of the international search report

17/02/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2

NL - 2280 HV Rijswijk

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Authorized officer

Karavassilis, N

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/CA 99/00106

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2256771	A	16-12-1992	IT 1249907 B ES 2038930 B FR 2677833 A	30-03-1995 16-02-1997 18-12-1992
US 4954886	A	04-09-1990	JP 1236873 A	21-09-1989
US 4326221	A	20-04-1982	NONE	

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference P 13746 PCT	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) <b>FOR FURTHER ACTION</b>	
International application No. PCT/ZA99/00106	International filing date (day/month/year) 05/10/1999	Priority date (day/month/year) 05/10/1998
International Patent Classification (IPC) or national classification and IPC H04M11/04		
Applicant COHEN, Lance, Farrel		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 7 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand  08/05/2000	Date of completion of this report  10.01.2001
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer  Teiwes, J  Telephone No. +49 89 2399 7504 

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/ZA99/00106

## I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

### Description, pages:

1-6 as amended under Article 19

### Claims, No.:

1-6 as amended under Article 19

### Drawings, sheets:

1/2-2/2 as amended under Article 19

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/ZA99/00106

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Yes:	Claims	1-6
	No:	Claims	
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-6
Industrial applicability (IA)	Yes:	Claims	1-6
	No:	Claims	

2. Citations and explanations  
**see separate sheet**

## VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:  
**see separate sheet**

## VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:  
**see separate sheet**

Reference is made to the following documents (Di):

D1: GB-A-2 256 771 (CABLE SRL) 16 December 1992 (1992-12-16)

D2: US-A-4 326 221 (MALLOS GENE G ET AL) 20 April 1982 (1982-04-20)

**Re Item V**

**Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

- 1 The applicant has modified the claims under Article 19 PCT by omitting the word "video" from the term "video camera".  
The scope of the relevant claims has therefore been extended, since no basis for a camera different from a video camera can be found in the application as filed. Hence the claims as amended result in the application being amended in such a way that it contains subject-matter which extends beyond the content of the application as filed, contrary to Article 34(2)(b) PCT.  
According to Rule 70.2 (c) PCT this report is established as if the above mentioned modification has not been made. Hence, every time the term "camera" is mentioned in the claims, the "camera" is considered as being a "video camera".
- 2 The present application does not meet the requirements of Articles 33(1) and (3) PCT, because the subject-matter of independent system claim 1 does not involve an inventive step.
- 2.1 The present formulation of independent system claim 1 is such that it appears that the following parts of its subject matter can be read onto prior art document D1, which relates to a remote surveillance system (abstract; figure 4).

In particular, document D1 discloses a video camera (figure 4, object 23) connectable to a portable wireless transceiver (figure 4, object 10) for transmitting a signal from the camera to a signal repeater (figure 4, object 12).  
D1 further discloses that the signal from the camera is transmitted over a telephony communication system (figure 4, objects 7, 12) to a second transceiver (figure 4, object 29) arranged to receive the signal and to display it on a display

means (figure 4, object 28).

D1 further discloses the exchange of commands (page 9, lines 7-12, lines 27-33).

- 2.2 The subject matter of claim 1 differs from D1 in that both end systems of the communication link comprise an audio communication device for transmitting voice signals from the base station to the remote site.

However, this feature is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to transmit control commands to the remote site e.g. for changing the camera position.

D2 mentions two possibilities for enabling a remote controlling a camera, a manual concept: column 1 lines 22-26 and an automated concept: figure 1, objects 16, 30, 32, 34, 36, 26.

- 2.3 The additional features of dependent claims 2-5 are either disclosed by D2 (claim 2 see D2, column 1, lines 22-26) or seem to be implementation measures not involving any special technical effect. Hence, the additional features of claims 2-5 do not add anything inventive to claim 1.
- 2.4 The method steps of independent method claim 6 correspond to the already discussed structural features of independent system claim 1. Claim 6 is, therefore, not inventive.

### **Re Item VII**

#### **Certain defects in the international application**

- 1 In order to meet the requirements of Rule 6.3(b) PCT the independent claims should have been cast in the two-part form, with those features which in combination are disclosed by document D1 being placed in a preamble Rule 6.3(b)(i) PCT and with the remaining features being included in a characterising part, Rule 6.3(b)(ii) PCT.
- 2 In order to fulfil the requirements of Rule 5.1(a)(ii) PCT, documents D1 to D2

should have been identified in the introductory part of the description and the relevant background art disclosed therein should have been briefly discussed, preferably in such a way that the inventive merit of what is claimed can be readily understood.

- 3 The description (summary of invention) should have been filed in conformity with the claims, Rule 5.1(a)(iii) PCT.  
The summary of the invention mentions features of the invention e.g. that the signal repeater is located in an aeroplane. These features cannot be found in any claim. Hence, they should have either been omitted or drawn up in a claim for consistency reasons.
- 4 Reference signs placed in parentheses should have been inserted into the claims to increase their intelligibility (see Rule 6.2(b) PCT). This applies to both the preamble and the characterising portion.

**Re Item VIII**

**Certain observations on the international application**

- 1 Independent system claim 1 does not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3 PCT, that any independent claim must contain all the technical features essential to the definition of the invention.

In view of the description (see page 4, lines 14-24), it seems that the presentation of the voice signals by the second audio communication device to the camera operator and that said voice signals contain operation commands for the camera indeed represent essential features to define the invention. None of these technical features are presented as optional anywhere in the description and they should therefore be included in the independent claim 1.

In fact, these features could have partially been drawn from dependent claim 2.

The same objection is also valid for the corresponding method claim 6.

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/ZA99/00106

- 2     Additionally, independent method claim 6 lacks another method step essential to the definition of the invention.

In view of the description (see page 4, lines 8-13), it seems that the transmission of the signal from the video camera to the base station represents an essential method step to define the invention. This method step is not presented as optional and it should have therefore been included in independent claim 6.

**AMENDED CLAIMS**

[received by the International Bureau on 14 April 2000 (14.04.00);  
original claims 1-3, 5-7 amended; original claims 4, 8 and 9 cancelled;  
original claims 5-7 renumbered as claims 4-6; (2 pages)]

1. A communication system comprising a camera connectable to a portable wireless transceiver for transmitting a signal from the camera to a signal repeater, from which the signal is transmitted over a telephony communication system to a second transceiver arranged to receive the signal and to display it on a display means, and a first audio communication device connectable to the second transceiver for transmitting a voice signal over the telephony communication system to the signal repeater and from the signal repeater to the portable wireless transceiver and to a second audio communication device connected to the portable transceiver.
2. A communication system as claimed in claim 1 in which the camera is electronically controllable through voice instructions transmitted from the first audio communication device.
3. A communication system as claimed in any one of the preceding claims in which azimuth and elevation of the camera are electronically controllable through voice instructions transmitted from the first audio communication device.
4. A communication system as claimed in any one of the preceding claims in which the audio communication devices provide at least a one way voice communication link from the first audio communication device to the second audio communication device.
5. A communication system as claimed in claim 4 in which at least the second audio communication device includes a headset having a loudspeaker.
6. A method of inspecting a remote site with a communication system comprising the steps of connecting a camera and a second audio communication device to a portable wireless transceiver at the remote site, connecting a signal repeater at the remote site to a telephony communication system, connecting a second transceiver at a base station to the telephony communication system, connecting a display means to the second transceiver and connecting a first audio communication device to the second transceiver, displaying a signal from the camera at the remote site on the display means and transmitting a voice signal from the first audio communication device

over the telephony communication system to the signal repeater and to the second audio communication device connected to the wireless transceiver.